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NAS 1.53/3:95-OSS-11



National Aeronautics and  
Space Administration

Release Date: May 1, 1995

NRA 95-OSS-11

# RESEARCH ANNOUNCEMENT

## Space Physics Supporting Research and Technology, Suborbital, Theory, and Education Programs

Notice of Intent to Propose Due:  
Proposal Submission Deadline:

June 30, 1995  
August 1, 1995

COMPLETED

95-033356

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**SPACE PHYSICS  
SUPPORTING RESEARCH AND TECHNOLOGY,  
SUBORBITAL, THEORY, AND EDUCATION PROGRAMS**

**NASA Research Announcement  
Soliciting Proposals for Basic Research  
submitted on or before  
August 1, 1995**

**NRA 95-OSS-11**

**Issued: May 1, 1995  
Notice of Intent Due: June 30, 1995  
Proposals Due: August 1, 1995**

**Office of Space Science  
National Aeronautics and Space Administration  
Washington, DC 20546-0001**

## SPACE PHYSICS SUPPORTING RESEARCH AND TECHNOLOGY, SUBORBITAL, THEORY, AND EDUCATION PROGRAMS

This NASA Research Announcement (NRA) solicits proposals for basic research investigations that seek to understand natural phenomena in the subdisciplines of space physics as administered by the Space Physics Division of the Office of Space Science (OSS). The science disciplines of interest are cosmic and heliospheric physics, solar physics, magnetospheric physics, and ionospheric-thermospheric-mesospheric (ITM) physics. The purpose of this research opportunity is to enable the relevant science communities to plan, propose for, and fully exploit NASA flight missions in space physics through a wide variety of research investigations involving theory and modeling, analysis of archival data, development of concepts for future experiments, development and flight of suborbital experiments, and key ground-based observations that support flight missions. This program supports only those proposals that have clearly demonstrated relevance to NASA's interests. Specific opportunities open to proposals through this NRA are for the Space Physics Supporting Research and Technology (SR&T), Suborbital (rocket and balloon), Theory, and Education Outreach programs, each of which is treated in detail in separate sections in Appendix A of this Announcement. Special attention is directed to the opportunity to propose for a Space Physics Educational Outreach (SPEO) supplement as an addition to any of the SR&T research programs. A SPEO supplement may be proposed by investigators who already hold an ongoing grant in this program as well as those who wish to submit new proposals.

Participation in these programs is open to all categories of organizations including educational institutions, industry, nonprofit institutions, NASA Centers, and other Government agencies. Selection for funding will be based with equal priority on (i) science and technical merit as determined by peer review, (ii) relevance to NASA programs in space physics, and (iii) cost. Funding for selected proposals will derive from NASA's budget for Fiscal Year (FY) 1996 beginning October 1, 1995. As of this writing, this budget is still being considered for authorization and appropriation through the Federal budgetary process. Therefore, the Government's obligation to make awards under this NRA is contingent upon receipt of proposals that the Government determines are acceptable for award and the availability of appropriated funds.

Table 1 summarizes the Program elements discussed in Appendix A, which provides technical and programmatic information specific to this NRA. Appendix B contains standard guidance for the preparation and the evaluation of proposals. Appendix C provides model formats for summary information that must preface each proposal. Appendix D provides the definitions of the evaluations used for proposals submitted in response to this NRA. Appendix E provides the definitions of minority and disadvantaged institutions, which are encouraged to apply to this NRA. All appendices will be sent immediately upon written request (facsimile, postal mail, or e-mail) to the point of contact listed below, or by returning the enclosed order form, or through the Space Physics Division Internet homepage at: <http://umbra.gsfc.nasa.gov/spd/spd.html>.

The following summary information applies to this NRA. Note: As a change from previous NRA's in this series, a Notice of Intent to propose is now required in advance of the submission of a proposal; see Appendix A, section 5.2 for further information.

- Program identifier: NRA 95-OSS-11.
- Date of Announcement issue: May 1, 1995
- Due date for required Notice of Intent to propose: June 30, 1995.
- Date for submission of proposal: August 1, 1995; 4:30 pm EDT.


- Anticipated announcement of selections: November 1995.
- Initiation of new grants: January 1996.
- Required proposal copies: 10 copies plus signed original.
- Address for submission of both Notice of Intent and proposal by U.S. Postal Service, courier, or express mail:
 

NASA Space Physics Program Office  
 Jorge Scientific Corporation  
 Suite 700  
 400 Virginia Avenue, SW  
 Washington, DC 20024  
 USA.
- Selecting official:
 

Director  
 Space Physics Division  
 Office of Space Science.
- Contact for additional information:
 

Dr. J. David Bohlin  
 Space Physics Division  
 Code SS  
 NASA Headquarters  
 Washington, DC 20546-0001  
 Phone: (202) 358-0880  
 Facsimile: (202) 358-3987  
 E-mail: jbohlin@hq.nasa.gov

Your interest and cooperation in this program are appreciated.



Wesley T. Huntress, Jr.  
 Associate Administrator  
 for Space Science

Enclosures

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**TABLE 1.****SUMMARY OF SPACE PHYSICS PROGRAMS FOR FY 1996**

PROGRAM ELEMENT	SUMMARY STATUS	APPENDIX A REFERENCE
• Cosmic and Heliospheric Physics Theory and Data Analysis Program	Program fully subscribed, although a few one- and two-year only proposals of exceptional merit may be selected.	Section 9.1.A.
• Cosmic and Heliospheric Physics Experimental Program	Program nominally open for competition, but heavily subscribed by on-going tasks needing further time for completion.	Section 9.1.B.
• Solar Physics SR&T Program	Approximately 35% of the program is open for competition.	Section 9.2.A.
• Solar Physics Suborbital Program	Heavily subscribed, although a few new tasks of exceptional merit may be selected.	Section 9.2.B.
• Magnetospheric Physics SR&T Program	Approximately 33% of the program is open for competition.	Section 9.3.A.
• Ionospheric, Thermospheric, Mesospheric Physics SR&T Program	Approximately 50% of the program is open for competition.	Section 9.4.A.
• MITM Suborbital Program	Approximately 50% of the program is open for competition.	Section 10.
• Space Physics Theory Program	100% of program is open for competition.	Section 11.
• Space Physics Educational Outreach (SPEO) Program	Up to 15 new grants may be selected as supplements to new and/or existing investigations in above programs.	Section 12.

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## **REQUEST FOR APPENDICES**

**NRA-95-OSS-11 "SPACE PHYSICS SUPPORTING RESEARCH AND  
TECHNOLOGY, SUBORBITAL, THEORY, AND EDUCATION PROGRAMS**

<b>RELEASE DATE:</b>	<b>MAY 1, 1995</b>
<b>NOTICE OF INTENT TO PROPOSE DUE:</b>	<b>JUNE 30, 1995</b>
<b>PROPOSAL SUBMISSION DEADLINE:</b>	<b>AUGUST 1, 1995</b>

**IF APPENDICES ARE DESIRED, PLEASE FILL IN YOUR NAME AND  
MAILING ADDRESS (INCLUDING ZIP AND ALSO COUNTRY IF FOREIGN  
ADDRESSEE) BELOW, REFOLD THIS SELF MAILER, TAPE, AFFIX PROPER  
POSTAGE, AND MAIL TO PREPRINTED ADDRESS ON THE REVERSE SIDE.**

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\_\_\_\_\_

**ADDRESS:** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**CITY:** \_\_\_\_\_ **STATE:** \_\_\_\_\_ **ZIP:** \_\_\_\_\_

**COUNTRY:** \_\_\_\_\_

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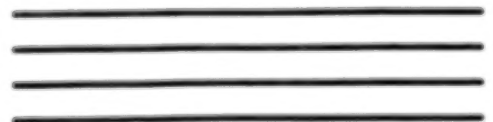
**NASA  
RESEARCH ANNOUNCEMENT  
REQUEST FORM**

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**DR J DAVID BOHLIN  
SPACE PHYSICS DIVISION  
MAIL CODE SS  
NASA HEADQUARTERS  
WASHINGTON DC 20546-0001**

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# NASA Research Announcement (NRA)/Announcement of Opportunity (AO) Mailing List Update

**If your current address is NOT up-to-date, please fill out this form completely.**

This is the update form for the NASA Office of Space Science (OSS) NRA/AO mailing list. Please fill out CONTACT INFORMATION completely. Check only those that apply in Institution Type and Discipline. Fold this form, secure with tape, and mail it back to the address on the reverse side. Proper postage must be applied.

Please check which announcements you would like to receive:

- ☐ 1. NASA Research Announcements (basic, non-flight, on-going research)
- ☐ 2. Announcements of Opportunity (specific space flight mission)

Must check (one, please include code number from mailing label):

- ☐ 1. Please add my name to the mailing list.
- ☐ 2. Please remove my name from the mailing list (please attach mailing label)
- ☐ 3. Please update my current listing.

## CONTACT INFORMATION

If your address has changed or your mailing label is incorrect, please provide COMPLETE contact information.

Code Number: (obtain from mailing label)	Salutation: (Mr., Mrs., Ms., Dr., Prof., etc.)	Suffix: (Ret., FrO., Jr., III, etc.)
First Name:	Mt:	Last Name:
Organization:		
Division / Department:		
Street:		
City:	State:	Zip:
Telephone No:	Fax No:	
E-Mail Address:	Internet Address:	
Country: (foreign addresses, please specify)		

## Institution Type

(check only those that apply)

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|--|---|---|
| <input type="checkbox"/> 1. College / or University        | <input type="checkbox"/> 4. Minority Business     | <input type="checkbox"/> 7. Other Government Agency |
| <input type="checkbox"/> 2. Minority College or University | <input type="checkbox"/> 5. NASA HQs/Center       | <input type="checkbox"/> 8. Private Industry        |
| <input type="checkbox"/> 3. Foreign Addressee              | <input type="checkbox"/> 6. Nonprofit Corporation | <input type="checkbox"/> 9. Small Business          |

## Societies:

- ☐ A. American Astronomical Society
- ☐ B. American Geophysical Union
- ☐ C. Others \_\_\_\_\_

## Discipline:

(check only those that apply)

### 1. Astronomy and Astrophysics

- ☐ A. Theory and Modeling
- ☐ B. Instrumentation (Technology Dev)
- ☐ C. Laboratory Astrophysics
- ☐ D. Data Analysis (Archival)
- ☐ E. Observational Programs

### 3. Space Physics

- ☐ A. Cosmic and Heliosphere Physics
- ☐ B. Solar Physics
- ☐ C. Magnetospheric Physics
- ☐ D. Ion-Thermo-Mesospheric Physics

### 2. Solar System Exploration

- ☐ A. Planetary Atmospheres and Astronomy
- ☐ B. Planetary Materials and Geochemistry
- ☐ C. Planetary Geology and Geophysics
- ☐ D. Instrument Development
- ☐ E. Origins of Solar Systems
- ☐ F. Exobiology

### 4. Information Systems/Computer Science

- ☐ A. High Performance Computing and Networking
- ☐ B. Scientific Data Analysis and Visualization
- ☐ C. Science Data Storage and Management
- ☐ D. Software Technology

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# NASA OFFICIAL MAILING LIST UPDATE

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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION  
OFFICE OF SPACE SCIENCE  
MAIL CODE SPI  
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# NASA RESEARCH ANNOUNCEMENT

***DATED MATERIAL***

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